Title (en)
Power management system with charger and boost converter

Title (de)
Leistungsmanagementsystem mit Ladegrät und Hochsetzsteller

Title (fr)
Système de gestion d'alimentation avec chargeur et élévateur de tension

Publication
EP 1919058 A2 20080507 (EN)

Application
EP 07019991 A 20071012

Priority
- US 85607506 P 20061101
- US 90692007 A 20071004

Abstract (en)
A power management system comprises a power conversion stage and a controller. The power conversion stage has two terminals. The first terminal is coupled to a first power source which provides a first voltage. The second terminal is selectively coupled to a second power source which provides a second voltage. The controller coupled to the power conversion stage can select a mode from at least a first mode and a second mode. In the first mode, the power conversion stage receives the first voltage at the first terminal and generates a step-up voltage at the second terminal. The generated step-up voltage is greater than the first voltage. In the second mode, the power conversion stage receives the second voltage at the second terminal and generates a step-down voltage at the first terminal for charging the first power source. The generated step-down voltage is less than the second voltage.

IPC 8 full level
H02J 7/00 (2006.01)

CPC (source: EP US)
H02J 7/0068 (2013.01 - EP US)

Cited by
EP2528186A4; GB2479812A; GB2479812B; EP2378623A3; CN109038744A; EP3537586A1; US2022052540A1; GB2612487A; US11953531B2; US11735942B2; US11515707B2; US10230259B2; US10150378B2; WO2019236182A1; US10778026B2; WO2022035554A1; US10673260B2; US11522460B2; US11671018B2; US9166436B2; US11469661B2; US11616434B2; US11476766B2; US11552569B2; US11658559B2; US11770064B2; US11152808B2; US11387732B2; US11522440B2; US11722054B2; US11909317B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

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EP 1919058 A2 20080507; JP 2008118847 A 20080522; TW 200826406 A 20080616; US 2008100143 A1 20080501

DOCDB simple family (application)
EP 07019991 A 20071012; JP 2007283656 A 20071031; TW 96140907 A 20071031; US 90692007 A 20071004